#### NO 1 JANUARY 1983

1 Editor's Note Fred Plum, MD

## **Neurological Progress**

2 The Pathophysiology of Brain Ischemia Marcus E. Raichle, MD

#### Original Articles

- 11 Phosphoglycerate Kinase Deficiency: Another Cause of Recurrent Myoglobinuria Salvatore DiMauro, MD, Marinos Dalakas, MD, and Armand F. Miranda, PbD
- 20 Evoked Potential Abnormalities in the Various Inherited Ataxias Marc R. Nuwer, MD. PhD. Susan L. Perlman, MD. James W. Packwood, PhD, and R. A. Pieter Kark, MD
- 28 The Effects of Dexamethasone Administration and Withdrawal on Water Permeability Across the Blood-Brain Barrier Alison C. Reid, MD, G. M. Teasdale, FRCS, and J. McCulloch, PhD
- 32 Extracranial Vascular Changes and the Source of Pain in Migraine Headache Peter D. Drummond, BSc, and James W. Lance, MD
- 38 Blood Flow Changes in Arteriovenous Malformation During Behavioral Activation Georg Deutsch, PhD
- 44 Bromocriptine and Lisuride in Parkinson Disease Abraham N. Lieberman, MD, Govindan Gopinathan, MD, Andreas Neophytides, MD, Morton Leibowitz, MD. Russell Walker, MD, and Emil Hiesiger, MD
- 48 Toxic Effect of Phenytoin on Developing Cortical Neurons in Culture Kenneth F. Swaiman, MD, Elaine A. Neale, PhD, Bruce K. Schrier, MD, PhD, and Phillip G. Nelson, MD, PhD
- 53 Occurrence of Oligoclonal Bands in Multiple Sclerosis and Other CNS Diseases James R. Miller, MD, Alan M. Burke, MD, and Christopher T. Bever, MD
- 59 Preoperative CT Diagnosis of Mesial Temporal Sclerosis for Surgical Treatment of Epilepsy Allen R. Wyler, MD, and Nicole-Fr. Bolender, MD
- 65 Comparison between Fascicular and Whole Sural Nerve Biopsy Martin Pollock, FRACP, Hitoshi Nukada, MD, Peter Taylor, MSc, Ivan Donaldson, MD, and Grant Carroll, MSc
- 69 Syndrome of Opsoclonus-Myoclonus Caused by Coxsackie B3 Infection Karl C. Kuban, MD, Moshe A. Ephros, MD, Roy L. Freeman, MD, Lori Burtz Laffell, MD, and Michael J. Bresnan, MD
- 72 Decreased Pyruvate Dehydrogenase Complex Activity in Huntington and Alzheimer Brain Sandro Sorbi, MD, Edward D. Bird, MD, and John P. Blass, MD, PhD

- 79 Epidemiological Surveillance of Amyotrophic Lateral Sclerosis and Parkinsonism-Dementia in the Commonwealth of the Northern Mariana Islands R. T. Yanagibara, MD, R. M. Garruto, PhD, and D. C. Gajdusek, MD
- 87 Neuron Loss in the Nucleus Basalis of Meynert in Parkinsonism-Dementia Complex of Guam Imaharu Nakano, MD, and Asao Hirano, MD

# Brief Communications and Case Reports

- 92 Observations on the Efficacy of Propranolol for the Prophylaxis of Migraine James A. Rosen, MD
- 94 Prenatal Symmetrical Thalamic Degeneration with Flexion Spasticity at Birth J. E. Parisi, MD, G. H. Collins, MD, R. C. Kim, MD, and C. J. Crosley, MD
- 97 Edentulous Orodyskinesia William C. Koller, MD, PhD
- 100 Serum Mitochondrial Aspartate
  Aminotransferase in Patients with Polymyositis
  Saburo Ogasahara, MD, PhD,
  Mitsuo Takahashi, MD, Jin Kang, MD,
  Shiro Yorifuji, MD, Keiji Wada, MD,
  Takanori Hazama, MD, Hiroaki Takeuchi, MD,
  and Seiichiro Tarui, MD
- 103 Pyridoxine-Dependency Seizure: Report of a Rare Presentation K. S. Krishnamoorthy, MD

## Notes and Letters

- 105 Juvenile Metachromatic Leukodystrophy: Evoked Potentials and Computed Tomography Lane Carlin, MD, E. Steve Roach, MD, Anthony Riela, MD, Ed Spudis, MD, and William T. McLean, Jr, MD
- 106 Tuberous Sclerosis and Chorea Bradley K. Evans, MD, and Joseph Jankovic, MD
- 108 CT Manifestation of Cerebral
  White Matter Lesion in Wilson Disease
  Kiyobide Takano, MD, Yoshiyuki Kuroiwa, MD,
  Yasuo Shimada, MD, Toru Mannen, MD,
  and Yasuo Toyokura, MD
- 109 Is Alzheimer Disease Caused by Lack of Nerve Growth Factor? Franz Hefti, PhD
- 110 Creatine Kinase Isozymes in Duchenne Dystrophy A. D. Desai, MB, FRCP(E), and A. M. Varadkar, MSc
- 110 Reply Victor Ionasescu, MD. and Ronald Feld, PhD

## Regular Departments

- 19 Erratum
- 111 Books

#### NO 2 FEBRUARY 1983

Neurological Progress

113 Epilepsies of Infancy and Childhood Manuel R. Gomez, MD, and Donald W. Klass, MD

#### Editorial

125 Muscle Wasting in Muscular Dystrophy: Decreased Protein Synthesis or Increased Degradation? Robert C. Griggs. MD. and Michael J. Rennie, PhD

## Original Articles

- 133 Immunocytochemical Studies of Cathepsin D in Human Skeletal Muscle John N. Whitaker, MD. Tulio E. Bertorini, MD. and Jerry R. Mendell. MD
- 143 Pupil Sparing in Oculomotor Palsy: A Brief Review Stephen E. Nadean, MD. and Jonathan D. Trobe, MD
- 149 Pupil-Sparing Oculomotor Palsies with Internal Carotid-Posterior Communicating Artery Aneurysms John T. Kissel. MD. Ronald M. Burde. MD. Terence G. Klingele, MD, and H. Evan Zeiger, MD
- 155 The Comparative Effects of Organic Brain Disease on Cerebral Blood Flow and Measured Intelligence Robert W. Butler, MS, William A. Dickinson, PhD, Charles Katholi, PhD, and James H. Halsey, Jr, MD
- 160 Amitriptyline Potentiates Morphine Analgesia by a Direct Action on the Central Nervous System Mitchell Botney. MD. and Howard L. Fields, MD. PhD
- 165 Effect of a Single Oral Dose of Propranolol on Essential Tremor: A Double-Blind Controlled Study S. Calzetti, MD. L. J. Findley, MD. M. A. Gresty, PhD. E. Perucca, MD. and A. Richens, MD
- 172 Immunocytochemical Comparison of Neurofibrillary Tangles in Senile Dementia of Alzheimer Type, Progressive Supranuclear Palsy, and Postencephalitic Parkinsonism Shu-Hui Yen, PhD. Dikran S. Horoupian, MD. and Robert D. Terry, MD
- 176 Electrophysiology of Duchenne Dystrophy Myotubes in Tissue Culture Steven M. Rothman, MD, and Richard Bischoff, PhD
- 180 Central Nervous System Excitatory Effects of Meperidine in Cancer Patients Robert F. Kaiko, PhD, Kathleen M. Foley, MD, Patricia Y. Grabinski, MS, George Heidrich, MS, Ada G. Rogers, RN, Charles E. Inturrisi, PhD, and Marcus M. Reidenberg, MD

- 186 Electrophysiological Effects of Myasthenic Serum Factors Studied in Mouse Muscle A. J. Lerrick, BSc, D. Wray, DPhil, A. Vincent, MB, MSc, and J. Newsom-Davis, MD
- 192 Relapsing Herpes Simplex Encephalitis Following Antiviral Therapy Larry E. Davis, MD, and Leroy C. McLaren, PhD
- 196 Recurrent Herpes Simplex Encephalitis: Recovery of Virus After Ara-A Treatment Richard D. Dix, PhD. J. Richard Baringer, MD. Hillel S. Panitch, MD, Sidney H. Rosenberg, MD, Joel Hagedorn, MD, and Jay Whaley, MD

Brief Communications and Case Reports

- 201 Thirst, Resetting of the Osmostat, and Water Intoxication Following Encephalitis J. G. Howe, MRCP, M. D. Penney, MRCPath, S. Currie, MD, and D. Morgan, MD
- 204 Case of Downbeat Nystagmus Influenced by Otolith Stimulation B. R. Chambers, FRACP, J. J. Ell, FRACP, and M. A. Gresty, PhD
- 207 Neurological and Neuroradiological Examination of Chronic Cannabis Smokers Jan Hannerz, MD, and Thomas Hindmarsh, MD
- 210 No Effect from Double-Blind Trial of Physostigmine and Lecithin in Alzheimer Disease Albert Wettstein, MD
- 212 Myoclonic Ocular Jerks John B. Selhorst, MD, Alfred L. Ochs. PhD, and Richard G. Selbst, MD

## Notes and Letters

- 214 Confirmation of Cerebral
  Air Embolism with Computerized Tomography
  Te-Long Hwang, MD, Richard Fremaux, MD,
  E. Simon Sears, MD, Bruce MacFadyen, MD,
  Brian Hills, DSc, ScD, Jon T. Mader, MD,
  and Bruce Peters, MD
- 215 "Lhermitte's Sign" as a Presenting Symptom of Subacute Combined Degeneration of the Cord R. Sandyk, MD. and M. J. W. Brennan, MB BCh, PhD
- 216 Morbilliform Rash Secondary to Baclofen Ingestion C. W. Lynde, MD, D. I. McLean, MD, R. Bachand, Pharm D, and D. Paty, MD
- 217 Variability of X-linked Muscular Dystrophy Kenneth H. Fischbeck, MD, and Donald L. Schotland, MD
- 217 Herpes Zoster and Central Retinal Artery Occlusion Scott Hall, MD, Lane Carlin, MD, E. Steve Roach, MD, and William T. McLean, Jr, MD

- 218 Chorea in Long-term Use of Pemoline Balder Kaur Singh, MD, Avtar Singh, MD, and Emanuel Chusid, MD
- 218 Electromyography in Myotonic Dystrophy Erich Streib, MD, and Sallie F. Sun. MD
- 219 Reply
  William Pryse-Phillips, MD, FRCP
- 219 Ophthalmoplegic Polyneuropathy Associated with Infectious Mononucleosis Abelardo Salazar, MD, Hector Martinez, MD, and Julio Sotelo, MD
- 220 Rapid Improvement of Myasthenia Gravis After Plasma Exchange? Luca Durelli, MD, Dario Cocito, MD, and Lodovico Bergamini, MD
- 221 Action Myoclonus in Lithium Toxicity
  Patricia B. Rosen, MD,
  and Ralph Stevens, MD

- 222 Naloxone of No Benefit in Amyotrophic Lateral Sclerosis Vincenzo Silani, MD, Michele Perini, MD, Ziad M. Fayoumi, MD, and Guglielmo Scarlato, MD
- 222 Global Aphasia in Multiple Sclerosis Joseph H. Friedman. MD. Henry Brem. MD. and Richard Mayeux. MD
- 223 Functional Anatomy of Focal Epilepsy Robert C. Collins, MD
- 224 Reply
  André Olivier, MD, Pierre Gloor, MD,
  and Frederick Andermann, MD
- 224 Diffuse Involvement in Progressive Aphasia Norman L. Foster, MD, and Thomas N. Chase, MD
- 225 Reply
  M.-Marsel Mesulam, MD.
  and Sandra Weintraub, PhD

## Regular Departments

226 Books

#### NO 3 MARCH 1983

# Special Article

New Diagnostic Criteria for Multiple Sclerosis: Guidelines for Research Protocols
Charles M. Poser, MD. Donald W. Paty, MD.
Labe Scheinberg, MD. W. Ian McDonald, FRCP.
Floyd A. Davis, MD. George C. Ebers, MD.
Kenneth P. Johnson, MD. William A. Sibley, MD.
Donald H. Silberberg, MD.
and Wallace W. Tourtellotte, MD

## Original Articles

- 232 Central Pontine Myelinolysis Following Rapid Correction of Hyponatremia Robert Laureno, MD
- 243 Basal Forebrain Neurons in the Dementia of Parkinson Disease Peter J. Whitehouse, MD, PhD, John C. Hedreen, MD, Charles L. White III, MD, and Donald L. Price, MD
- 249 Studies of Human and Monkey "Epileptic" Neocortex in the In Vitro Slice Preparation Philip A. Schwartzkroin, PhD. Dennis A. Turner, MD, W. Douglas Knowles, PhD, and Allen R. Wyler, MD

- 258 Cerebrospinal Fluid Monoamine Metabolites in Narcolepsy and Hypersomnia Kym F. Faull, PhD, Christian Guilleminault, MD, Philip A. Berger, MD, and Jack D. Barchas, MD
- 264 Axonal Atrophy in Sensory Nerves of the Diabetic BB-Wistar Rat: A Possible Early Correlate of Human Diabetic Neuropathy Anders A. F. Sima, MD, PhD, Mark Bouchier, BSc, and Hilary Christensen, RT
- 273 Progressive Supranuclear Palsy: Clinical Features and Response to Treatment in 16 Patients Jeffrey A. Jackson. MD. Joseph Jankovic. MD. and Janet Ford. RN
- 279 Abnormal Unloading Reflex in a Patient with Infarction of the Medial Lemniscus Ronald W. Angel, MD, and Mark Goldstein. MD
- 285 A Dominantly Inherited Syndrome with Continuous Motor Neuron Discharges Tetsuo Ashizawa, MD, Ian J. Butler, MD, Yadollah Harati, MD, and Suresh M. Roongta, MD
- 291 Neuromuscular Dysfunction and Ultrastructural Pathology in Children with Chronic Cholestasis and Vitamin E Deficiency Steven L. Werlin, MD, Joseph M. Harb, PhD, Herbert Swick, MD, and Ellen Blank, MD

- 297 Cerebellar Cortex Ultrastructure in Ataxia-Telangiectasia M. M. Paula-Barbosa, MD, PhD, C. Ruela, MD, M. A. Tavares, MD, C. Pontes, MD, A. Saraiva, MD, and C. Cruz, MD, PhD
- 303 Chronic Experimental Allergic Encephalomyelitis Produced by Bovine Proteolipid Apoprotein: Immunological Studies in Rabbits Franca Cambi, MD, Marjorie B. Lees, PhD, Rosemarie M. Williams, DVM, and Wendy B. Macklin, PhD
- 309 Dissociation of Early SEP Components in Unilateral Traumatic Section of the Lower Medulla F. Mauguière, MD, J. Courjon, MD, and B. Schott, MD
- 314 Cerebral Emboli of Paradoxical Origin H. Royden Jones, Jr. MD, Louis R. Caplan, MD, Patricia C. Come, MD, Neil W. Swinton, Jr. MD, and Donald J. Breslin, MD
- 320 Removal of Sedative-Hypnotic
  Antiepileptic Drugs from the Regimens
  of Patients with Intractable Epilepsy
  William H. Theodore, MD, and Roger J. Porter, MD

# Brief Communications and Case Reports

- 325 Friedreich Ataxia and Low Pyruvate Carboxylase Activity in Liver and Fibroblasts U. J. Dijkstra, MD. J. L. Willems, PhD, E. M. G. Joosten, PhD, and F. J. M. Gabreëls, PhD
- 328 Normal Vitamin E Status in Spinal Muscular Atrophy Ronald J. Sokol, MD, and Susan T. Iannaccone, MD
- 331 Computerized Tomography as a Diagnostic Aid in Acute Hemorrhagic Leukoencephalitis Ted L. Rothstein, MD, and Cheng-Mei Shaw, MD
- 334 Incidence and Treatment of Peripheral Venous Thrombosis in Patients with Glioma Robert L. Ruff, MD, PhD, and Jerome B. Posner, MD

337 Intracerebral Hemorrhage and Vasculitis Related to Ephedrine Abuse Marvin R. Wooten, MD, Makhan S. Khangure, MD, and Martin J. Murphy, MD

#### Notes and Letters

- 341 Postvaccinal Encephalitis Charles M. Poser, MD
- 341 Reply Gerald M. Fenichel, MD
- 342 Cerebrospinal Fluid γ-Aminobutyric Acid in Spasmodic Torticollis R. J. Abbott, MRCP, S. Currie, FRCP, J. G. Howe, MRCP, and D. W. Sumner, FRCP
- 342 Reply Julius Korein, MD, and Mark Kupersmith, MD
- 343 Senile Gait: Correlation
  with Computed Tomographic Scans
  William C. Koller, MD, PhD,
  Robert S. Wilson, PhD, Sander L. Glatt, MD,
  Michael S. Huckman, MD, and Jacob H. Fox, MD
- 344 "Salt and Pepper on the Face" Pain in Acute Brainstem Ischemia L. Caplan, MD, and P. Gorelick, MD
- 345 Unilateral Straight Hair in Congenital Horner Syndrome Due to Stellate Ganglion Tumor D. Alan Shewmon, MD
- 346 Association of Meningiomas with Obesity Srinath N. Bellur, MD, Vijay Chandra, MD, PhD, and Robert J. Anderson, PhD
- 347 Sudden Deafness in Chickenpox: A Case Report Rajan Bhandari, MD, and Gerald S. Steinman, MD
- 348 Major Morbidity Related to Hyperthermia in Multiple Sclerosis Stephen G. Waxman, MD, PhD, and Norman Geschwind, MD

## Regular Departments

349 Book

#### NO 4 APRIL 1983

## Neurological Progress

351 Neurodegenerative Diseases of Infancy and Childhood Paul Dyken, MD, and Nicolas Krawiecki, MD

## Original Articles

- 365 Sequence of Metabolic, Clinical, and Histological Events in Experimental Thiamine Deficiency A. M. Hakim, MD, PhD, and H. M. Pappius, PhD
- 376 Intermittent Thiamine Deficiency in the Rhesus Monkey. I. Progression of Neurological Signs and Neuroanatomical Lesions Ellen D. Witt. PhD.

  and Patricia S. Goldman-Rakic, PhD
- Rhesus Monkey. II. Evidence for Memory Loss Ellen D. Witt. PhD. and Patricia S. Goldman-Rakic, PhD
- 402 Blepharospasm and Orofacial-Cervical Dystonia: Clinical and Pharmacological Findings in 100 Patients Joseph Jankovic, MD, and Janet Ford, RN, CNRN
- 412 Acute Panautonomic Neuropathy
  P. A. Low, MD, FRACP, P. J. Dyck, MD,
  E. H. Lambert, MD, PhD, W. S. Brimijoin, PhD,
  J. C. Trantmann, MD, J. R. Malagelada, MD,
  R. D. Fealey, MD, and D. M. Barrett, MD
- 418 Immunoregulatory T-Cells and Lymphocytotoxic Antibodies in Active Multiple Sclerosis: Weekly Analysis over a Six-month Period Stephen L. Hauser, MD. Ellis L. Reinherz, MD. Carolyn J. Hoban, Stuart F. Schlossman, MD. and Howard L. Weiner, MD
- 426 Persistent Infection of Oligodendrocytes in Theiler's Virus-Induced Encephalomyelitis Moses Rodriguez, MD, Julian L. Leibowitz, MD, PhD, and Peter W. Lampert, MD
- 434 Oligoclonal IgG Bands in Cerebrospinal Fluid in Various Neurological Diseases
  Anita B. Chu, MD, John L. Sever, MD, PhD, David L. Madden, DVM, PhD,
  Matti livanainen, MD, Marta Leon, PhD,
  William Wallen, PhD, Benjamin R. Brooks, MD,
  Young Jack Lee, PhD, and Sidney Houff, MD

- 440 Adult Polyglucosan Body Disease: Clinical and Nerve Biopsy Findings in Two Cases A. J. M. Vos, MD, E. M. G. Joosten, MD, and A. A. W. M. Gabreëls-Festen, MD
- 445 Seizures Induced by Carbachol, Morphine, and Leucine-Enkephalin: A Comparison O. Carter Snead III. MD

# Brief Communications and Case Reports

- 452 T-Cell Subsets in Polymyositis
  Vasudeva lyer. MD, Alexander R. Lawton, MD,
  and Gerald M. Fenichel, MD
- 453 Permanent Neurological Deficits due to Lithium Toxicity Sateesh N. Apte, MD, and J. William Langston, MD
- 456 Familial Paroxysmal Dystonic Choreoathetosis and Response to Alternate-Day Oxazepam Therapy Roger Kurlan, MD, and Ira Shoulson, MD
- 457 Progressive CT Abnormalities Despite Clinical Improvement in SSPE Treated with Inosiplex Michael J. Noetzel, MD, and W. Edwin Dodson, MD
- 460 How Often Does a CSF Pleocytosis Follow Generalized Convulsions? Robert Edwards, MD, James W. Schmidley, MD, and Roger P. Simon, MD
- 462 Analgesic Activity of Tricyclic Antidepressants Katharyn Spiegel, BS, Robert Kalb, MD, and Gavril W. Pasternak, MD, PhD

#### Letters

- 466 Respirator Support in Amyotrophic Lateral Sclerosis Walter G. Bradley, DM, FRCP
- 466 Persistent Akathisia Following Neuroleptic Withdrawal William J. Weiner, MD, and Elliott D. Luby, MD
- 467 Alcohol and Parkinson Disease William C. Koller, MD, PhD

# Regular Departments

468 Books

#### NO 5 MAY 1983

## Neurological Progress

469 Neurotoxicity of Radiological Contrast Agents Larry Junck, MD, and William H. Marshall, MD

## Original Articles

- 485 Progressive Multifocal
  Leukoencephalopathy: A Burnt-Out Case
  Richard W. Price, MD, Surl Nielsen, MD,
  Bruce Horten, MD, Michael Rubino, PhD,
  Billie Padgett, PhD, and Duard Walker, MD
- 491 Oral Physostigmine and Lecithin Improve Memory in Alzheimer Disease L. J. Thal, MD. P. A. Fuld, PhD, D. M. Masur, MS, and N. S. Sharpless, PhD
- 497 β-Galactosidase-Neuraminidase Deficiency (Galactosialidosis): Clinical, Pathological, and Enzymatic Studies in a Postmortem Case Hitoshi Sakuraba, MD, Yoshiyuki Suzuki, MD, Masao Akagi, MD, Masao Sakai, MD, and Naoji Amano, MD
- 504 Myasthenia Gravis in Children: Long-Term Follow-up Moses Rodriguez, MD. Manuel R. Gomez, MD. Frank M. Howard, Jr. MD, and William F. Taylor, PhD
- 511 Neurotransmitter Alterations in a Model of Perinatal Hypoxic-Ischemic Brain Injury Michael V. Johnston, MD
- 519 Somatostatin Is Increased in the Basal Ganglia in Huntington Disease Neil Aronin. MD, Paul E. Cooper, MD, Linda J. Lorenz, BS, Edward D. Bird, MD, Stephen M. Sagar, MD, Susan E. Leeman, PhD, and Joseph B. Martin, MD, PhD
- 527 Roles of Echocardiography and Arrhythmia Monitoring in the Evaluation of Patients with Suspected Systemic Embolism Patricia C. Come, MD, Marilyn F. Riley, BS. and Natalie K. Bivas, BA
- 532 Freeze-Fracture Analysis of Plasma Membrane Cholesterol in Duchenne Muscle Kenneth H. Fischbeck, MD, Eduardo Bonilla, MD, and Donald L. Schotland, MD
- 536 Facial Recognition and Brain Asymmetries: Clues to Underlying Mechanisms Michael S. Gazzaniga, PhD, and Charlotte S. Smylie, MS
- 541 Segmental Demyelination and Remyelination in Lumbar Spinal Roots of Patients Dying with Diabetes Mellitus Akio Ohnishi, MD, Masayoshi Harada, MD, Jun Tateishi, MD, Jun Ogata, MD, and Sachiko Kawanami, MD

- 549 Tonic Status Epilepticus
  Presenting as Confusional State
  Ernest R. Somerville, MRCP, and Joseph Bruni, MD
- 552 Maturational Changes in Postictal Refractoriness and Seizure Susceptibility in Developing Rats Solomon L. Moshé, MD, and Bruce J. Albala, PhD
- 558 Computed Tomographic Scan Correlates of Auditory Comprehension Deficits in Aphasia: A Prospective Recovery Study Ola A. Selnes, PhD, David S. Knopman, MD, Nancy Niccum, PhD, Alan B. Rubens, MD, and David Larson, MD
- 567 Computed Tomography in Acute Disseminated Encephalomyelitis Steven A. Lukes, MD, and David Norman, MD
- 573 Disease Activity and Emotional State in Multiple Sclerosis Nancy P. Dalos, MD. Peter V. Rabins, MD. Benjamin R. Brooks, MD, and Pat O'Donnell, MS. RN

#### Letters

- 578 Striatal and Limbic Dopamine Function: Evidence from Animal Studies Jonathan E. Alpert, BA, and Susan D. Iversen, PhD
- 578 Obturator Neuropathy
  After Total Hip Replacement
  Norma B. Melamed, MD, and Saty Satya-Murti, MD
- 579 Lithium Ineffective in Dystonia William C. Koller, MD, PhD, and Nabil Biary, MD
- 580 Depth Electroencephalography in Patient Selection for Surgical Treatment of Epilepsy Benjamin G. Zifkin, MDCM, FRCP(C). and B. L. Ebrenberg, MD
- 580 Reply
  Susan S. Spencer, MD, Dennis D. Spencer, MD,
  Peter D. Williamson, MD, and Richard H. Mattson, MD
- 581 Reply
  Jerome Engel, Jr. MD. PhD. Rebecca Rausch. PhD.
  Jeffrey P. Lieb, PhD. David E. Kuhl. MD.
  and Paul H. Crandall, MD
- 582 Scopolamine Psychosis Revisited J. Gregory Cairncross, MD
- 582 Glutaric Acidemia as a Cause of Striatal Necrosis in Childhood Stephen I. Goodman, MD, and Michael D. Norenberg, MD
- 583 Reply F. Goutières, MD, and J. Aicardi, MD
- 583 Transderm Pupil and Confusion in a 10 Year Old Stephen F. Johnson, MD, and Randall J. Moore, MD

# Regular Departments

584 Books

#### NO 6 JUNE 1983

#### Special Article

587 Immunity and the Nervous System: Basic Tenets Byron H. Waksman, MD

## Original Articles

- 592 Nuclear Magnetic Resonance Imaging in Multiple Sclerosis Steven A. Lukes, MD, Lawrence E. Crooks, PhD, Michael J. Aminoff, MD, Leon Kaufman, PhD, Hillel S. Panitch, MD, Catherine Mills, MD, and David Norman, MD
- 602 Age Dependent Susceptibility to Reovirus Type 3 Encephalitis: Role of Viral and Host Factors Marc Tardien MD, M. Linda Powers, MS, and Howard L. Weiner, MD
- 608 A Sibship with Neuroaxonal Dystrophy and Renal Tubular Acidosis: A New Syndrome? Micheline Maccario. MD. Hernando Mena. MD. Michael R. Weir, MD. Michael D. Matson, MD. and Bernhard E. F. Reimann, Dr rer nat
- 616 Variable Waveforms in Downbeat Nystagmus Imply Short-Term Gain Changes L. A. Abel, PhD, S. Traccis, MD, L. F. Dell'Osso, PhD, and C. F. Ansevin, MD
- 621 Downbeat Nystagmus with a Pseudocycloid Waveform: Improvement with Base-Out Prisms P. J. M. Lavin, MRCPI, S. Traccis, MD, L. F. Dell'Osso, PhD, L. A. Abel, PhD, and C. Ellenberger, Jr. MD
- 625 Induction of Brain Edema Following
  Intracerebral Injection of Arachidonic Acid
  Pak Hoo Chan, PhD, Robert A. Fishman, MD,
  John Caronna, MD, James W. Schmidley, MD,
  George Prioleau, MD, and Janie Lee, BS
- 633 Changes in Regional Cerebral Blood Flow During the Course of Classic Migraine Attacks Martin Lauritzen, MD, Tom Skyhøj Olsen, MD, Niels A. Lassen, MD, and Olaf B. Paulson, MD
- 642 Long-Term Prognosis in Two Forms of Childhood Epilepsy: Typical Absence Seizures and Epilepsy with Rolandic (Centrotemporal) EEG Foci P. Loiseau, MD, M. Pestre, MD, J. F. Dartigues, MD, D. Commenges, MD, C. Barberger-Gateau, MD, and S. Cobadon, MD
- 649 Abnormalities of Erythrocytes in Duchenne Muscular Dystrophy Mizuko Yoshida. PhD. Kazuya Ando, MD, and Eijiro Satoyoshi, MD
- 654 Passive Joint Position Sense After Total Hip Replacement Surgery Percy N. Karanjia, MD, MRCP, and John H. Ferguson, MD

658 Na<sup>+</sup> - and K<sup>+</sup>-Dependent Adenosine Triphosphatase Changes in Multiple Sclerosis Plaques Hilde E. Hirsch, PhD, and Mary Ellen Parks, BA

# Brief Communications and Case Reports

- 664 Serum Demyelinating Factors in Multiple Sclerosis Fredrick J. Seil. MD. Fred C. Westall. PhD. John S. Romine, MD. and Jonas Salk, MD
- 667 Superior Oblique Myokymia Michael L. Rosenberg, MD, and Joel S. Glaser, MD
- 669 Tetrahydrocannabinol for Tremor in Multiple Sclerosis David B. Clifford, MD
- 671 Lithium Interferes with Reserpine-Induced Dopamine Depletion Avinoam Reches, MD. Mohamed N. Hassan, MD. Vernice Jackson, MS, and Stanley Fahn, MD
- 674 Parental Age as a Risk Factor in Alzheimer's Disease Suzanne Corkin, PhD. John H. Growdon, MD. and Shelley L. Rasmussen, PhD
- 676 Delayed Onset of Post-Rabies
  Vaccination Encephalitis
  E. T. Gamboa, MD, D. Cowen, MD, A. Eggers, MD, P. Cogan, MD, R. Ganti, MD, and J. C. M. Brust, MD
- 679 Kearns-Sayre Syndrome with Reduced Plasma and Cerebrospinal Fluid Folate Richard J. Allen, MD, Salvatore DiMauro, MD, David L. Coulter, MD, Alexander Papadimitriou, MD, and Sheldon P. Rothenberg, MD
- 682 Evidence that Lack of Deoxyribonucleic Acid Repair Causes Death of Neurons in Xeroderma Pigmentosum Jay H. Robbins, MD, Ronald J. Polinsky, MD, and Alan N. Mosbell, MD

## Notes and Letters

- 685 Hematological Monitoring During Therapy with Carbamazepine in Children Faye S. Silverstein, MDCM, Lawrence Boxer, MD, and Michael V. Johnston, MD
- 686 Familial Periodic Paralysis: Low Muscle Potassium Permeability or High Sodium Permeability? J. J. Schipperheyn, MD, PhD, and O. J. S. Buruma, MD, PhD

- 687 Folate Metabolism Disorder in Kearns-Sayre Syndrome M. Dougados, MD. J. Zittoun, MD. D. Laplane, MD, and P. Castaigne, MD
- 687 Slowly Progressive Aphasia Without Generalized Dementia P. D. Heath. MRCP. P. Kennedy, FRCP. and N. Kapur, PhD
- 688 Safe Readministration of Valproate After an Episode of Hepatotoxicity E. Eugene Ramsay, MD
- 689 Use of Tinel's Sign in Carpal Tunnel Syndrome A. P. Bowles, Jr. MD, S. W. Asher, MD. and J. B. Pickett, MD
- Nuclear Magnetic Resonance Imaging in Movement Disorders Steven A. Lukes, MD. Michael J. Aminoff. MD. Lawrence Crooks, PhD. Leon Kaufman, PhD. Catherine Mills, MD, and Thomas H. Newton, MD
- 691 Effect of Carbamazepine on Coumadin Metabolism E. Wayne Massey, MD
  - Indexes to Volume 13
- 694 Author Index 696 Subject Index
  - Regular Departments
- 693 Books